

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (original) A scatter-free optical fluoride crystal for transmitting below 200 nm wavelengths comprising an optical fluoride crystal having a chlorine concentration of less than 0.25 ppm Cl
2. (original) A scatter-free according to claim 1, wherein said optical fluoride crystal is selected from the group consisting of calcium fluoride, barium fluoride, magnesium fluoride, strontium fluoride and lithium fluoride, and mixtures thereof.
3. (original) The scatter-free crystal according to claim 1, wherein said optical fluoride crystal is a calcium fluoride crystal having a below 200 nm transmission >99%.
4. (original) The scatter-free crystal according to claim 1, wherein said optical fluoride crystal is a calcium fluoride crystal having a chlorine concentration of less than 0.2 ppm Cl and a 193nm transmission >99%.
5. (original) The scatter-free crystal according to claim 1, wherein said optical fluoride crystal is a calcium fluoride crystal having a chlorine concentration of less than 0.2 ppm Cl and a 157nm transmission >99%.
6. (original) The scatter-free crystal according to claim 1, wherein said optical fluoride crystal is a calcium fluoride crystal having a chlorine concentration of less than 0.2 ppm Cl and a 157nm transmission >99%.
7. (original) The scatter-free crystal according to claim 1, wherein said optical fluoride crystal is a calcium fluoride crystal having a combined chlorine and sulfur concentration Cl + S of less than 0.3 ppm Cl and a transmission >98% in the 157-199 nm range.
8. (original) The scatter-free crystal according to claim 7, wherein Cl + S is less than 0.2 ppm and a 157 nm transmission >99%.

9-18. Previously withdrawn